

What is claimed is:

1. A color filter comprising a substrate having a plurality of areas, each area having a colored portion thereon,
5 wherein said plurality of areas each have a light reflecting area in which light entering said colored portion is reflected, and a light transmitting area through which light entering said colored portion passes, and
said light transmitting area includes a recessed portion for adjusting an optical path length in said colored portion.
10
2. The color filter according to the claim 1, wherein the depth of said recessed portion is defined with respect to the reflection surface of said light reflecting area so that said light reflecting area and said light transmitting area have the same optical path length in said colored portion.
15
3. The color filter according to the claim 1, wherein a ratio between the plane area of said light reflecting area and the plane area of said light transmitting area is set so that the ratio between the light amounts of emitted light from said light reflecting area and emitted light from said light transmitting area is a desired ratio.
20
4. The color filter according to the claim 1, wherein said plurality of areas are partitioned by banks.
5. The color filter according to the claim 4, wherein the surface of said bank is
25 liquid repellent.

6. The color filter according to the claim 1, wherein said colored portion is formed by a droplet discharge process.
- 5 7. The color filter according to the claim 1, wherein the reflection surface of said light reflecting area has a light scattering capability.
8. A display apparatus having a color filter on the side of one substrate, of a pair of substrates holding a liquid therebetween and facing each other,
10 wherein the display apparatus has the color filter of claim 1.
9. Electronic device comprising the display apparatus of claim 8.
10. A method for producing a color filter comprising a substrate having a plurality
15 of areas, each area having a colored portion thereon,
wherein said plurality of areas each have a light reflecting area in which light entering said colored portion is reflected, and a light transmitting area through which light entering said colored portion passes, and
recessed portions constituting said light transmitting areas are formed.
- 20 11. The method according to claim 10, wherein the depth of said recessed portion is defined with respect to the reflection surface of said light reflecting area so that said light reflecting area and said light transmitting area have the same optical path length in said colored portion, and said recessed portion is formed.

12. The method according to claim 10, wherein a ratio between the plane area of said light reflecting area and the plane area of said light transmitting area is set so that the ratio between the light amounts of emitted light from said light reflecting area and emitted light from said light transmitting area is a desired ratio, and said light reflecting area and said light transmitting area are formed.
- 5
13. The method according to claim 10, wherein said recessed portion and said light reflecting area are formed in one operation by an etching method.
- 10 14. The method according to claim 10, wherein said colored portion is formed by a droplet discharge process.